

4444 200000

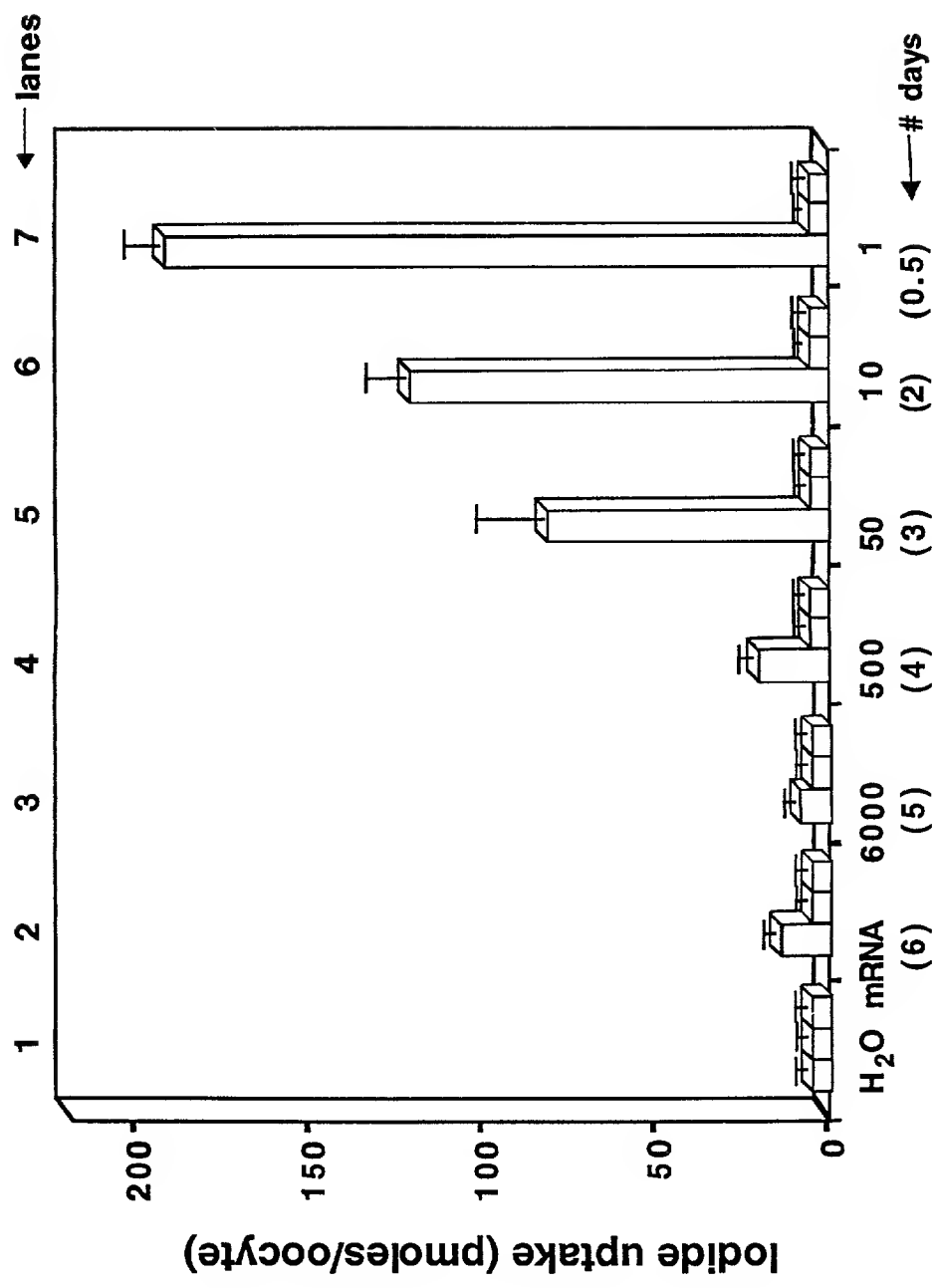


FIG. 1A

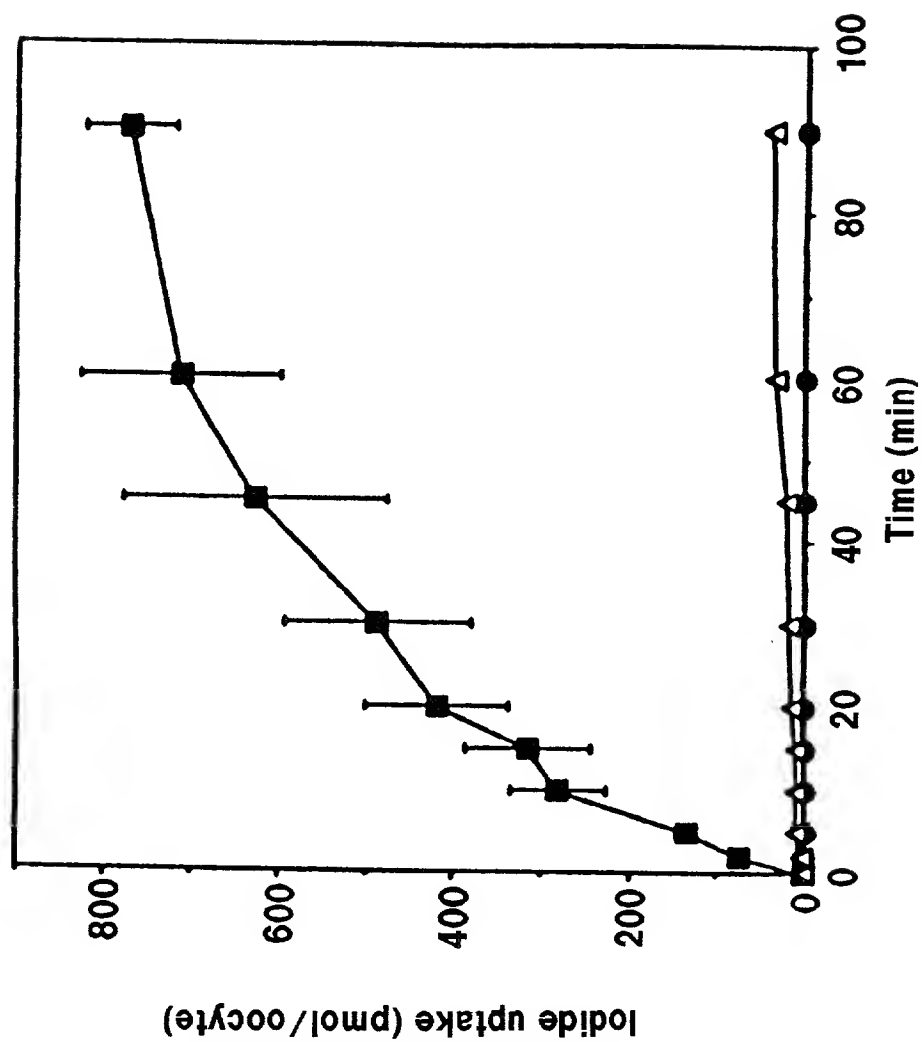


FIG. 1B

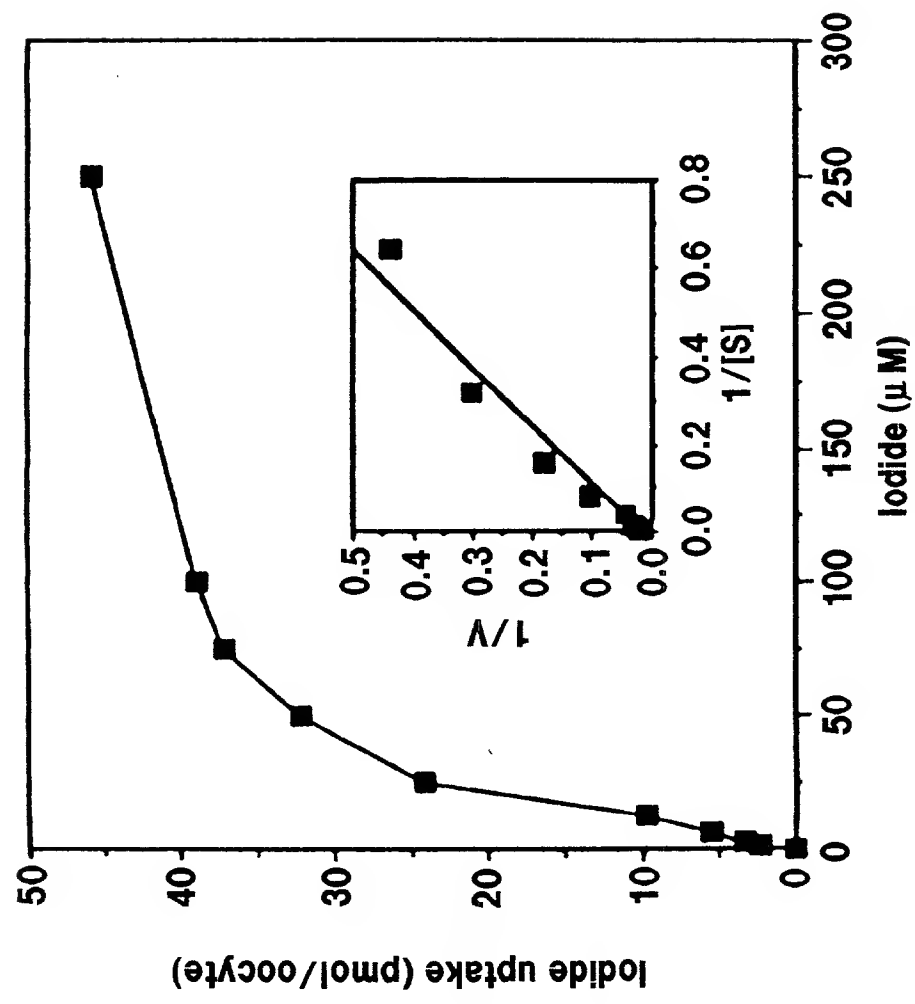


FIG. 1C

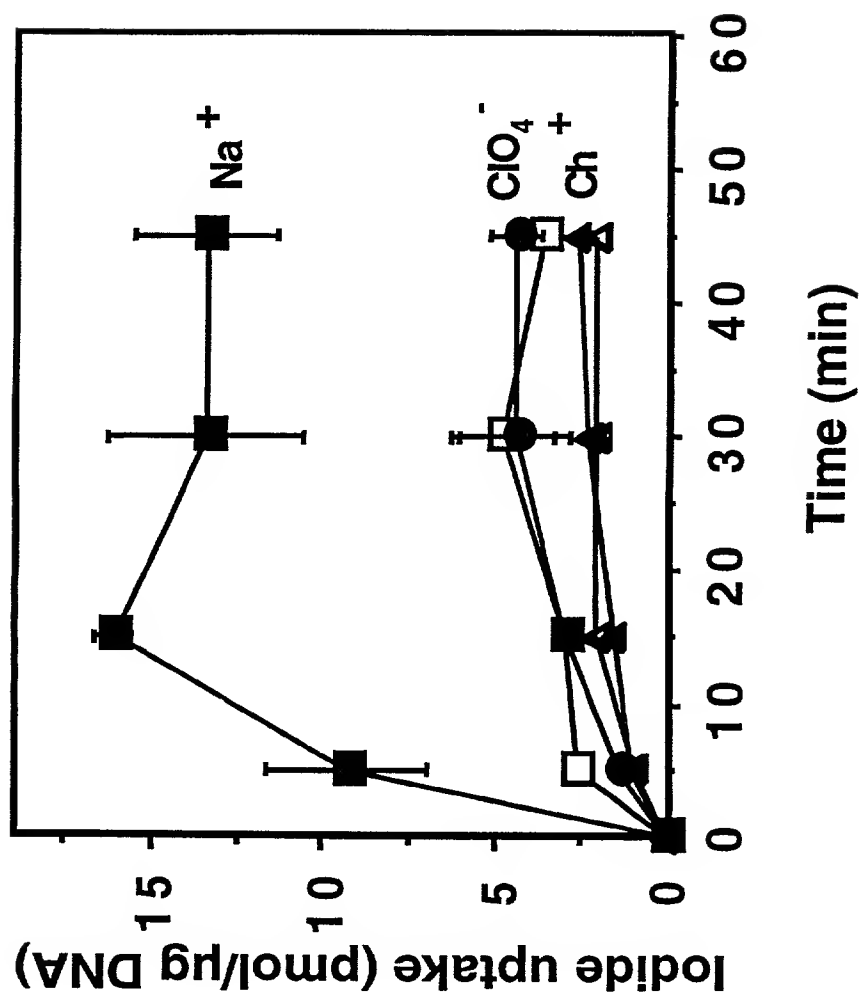


FIG. 1D

gaattccgggtcgaccaacggtccggcggtgactcgcggtgagactctccactgaccga 60
gagtcgccgagcgtcctccgcacccctcctccaccgagtcacactgtctccATGGAGGGTGC 120
M E G A 4
GGAGGCCGGGGCCGGGCCACCTTCGGCGCCTGGGACTACGGCGTGTTCGGCACCATGCT 180
E A G A R A T F G A W D Y G V F A T M L 24
GCTGGTGGACCGGGCATCGGGCTATCGGTGGGCTGGCCCGCGGTGGCCAACGCAGTGC 240
L V S T G I G L W V G L A R G G Q R S A 44
CGACGACTTCTTTACCGGGGGCGGGCCTGGGCGAGGCTTCCTGGGGGCTGCTGGG 300
D D F F T G G R Q L A A V P V G L S L A 64
AGCGCGCTACGG 360
A S F M S A V O V L G V P A E A A R Y G 84
GCTCACTGTCCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 420
L K F L W M C A G Q L L N S L L T A F L 104
CTTCTGGGCGATCTCTACCGCCTGGGCTTACCAGCACCTACCAGTACCTAGAGCTGCG 480
F L P I F Y R L G L T S T Y Q Y L E L R 124
CTTCAGCCGAGCGGCTCGGCTCTGCGGACGCTGCAGTACTTGGTGGCCACGATGCTGTA 540
F S R A V R L C G T L O Y L V A T M L Y 144
TTCAGGCTGGGCTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 600
T G I V I Y A P A L I I N Q V T G L D I 164
CTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 660
W A S L L S T G I I C T L Y T T V G G M 184
GAAGGCCGTGGTCTGGACAGTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 720
K A V V T D V F Q V V V M L V G F W V 204
GATCCTGGCCGAGGCGCTATCTCCCTGGGGGTCCCGGAACGTCTCAGCCTCGCTCA 780
I L A R G V I L L G G P R N V L S L A Q 224
GAACCATCCCGATCAACCTGATGGACTTTGACCTGATCTCGGAGCCGGTACACCTT 840
N H S R I N L M D F D P D P R S R Y T F 244
CTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 900
W T F I V G G T L V W L S M Y C V N Q A 264
CCAGGTACAGCGTATGTGGCCTGCCACACAGAGGAAAGGCCAACTGGCCCTGCTTGT 960
Q V Q R Y V A C H T E G K A K L A L L V 284
CAACCACTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1020
N Q L G L F L I V A S A A C C G I V M F 304
CGTCTACTACAAGGACTGTGACCCCTCTCACAGGCGGTATCTCAGCCCCGACAGTA 1080
V Y Y K D C D P L L T G R I S A P D Q Y 324
CATGCCGTGCTTGTGTGGACATTTTGGAGTCTGCCCGGGGTCCCGGGCTCTTCCT 1140
M P L L V L D I F E D L P G V P G L F L 344
GGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1200
A C A Y S G T L S T A S T S I N A M A A 364
TGTGACTGTGGAAGACCTCATCAAGCGAGGATGCCCTGGCCTGGCACCTCGGAAGTTGGT 1260
V T V E D D L I K P R M P G L A P R K L V 384
TTTCATCTCTAAAGGCTCTCATCTACGCTCTGCCTGCCTCACTGTGGCTGCTCT 1320
F I S K G L S F I Y G S A C L T V A A L 404
GTCTCACTGCTGGGAGTGGTGTCTCCAGGTTCTTCACTGTGATGGGTGTCTATCAG 1380
S S L G G G V L Q G S F T V M G V I S 424
TGGGCTCTACTAGGCGCTTACGCTTGGGATGCTGCTCCAGCCTGCAACACGCGAGG 1440
G P L L G A F T L G M L L P A C N T P G 444
CGTCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1500
V L S G L A A G L A V S L W V A V G A T 464
ACTGTATCCCGCTGGAGAGCAGACCATGGGGTGTGCCACCTCGGCTGCAGGCTGCAC 1560
L Y P P F G E Q T M G V L P T S A A G C T 484
CAACGATTCGGTCTCTGGGCGCACCTGGAGCCACCAACGCTTCCAACGGGATCCCGAG 1620
N D S V L L G P P G A T N A S N G I P S 504
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S G M D T G R P A L A D T F Y A I S Y L 524
CTATTTCCGGCTCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1740
Y Y G A L G T L T T M L C G A L I S Y L 544
TACTGGTCCCAAGCGAGCTCCCTGGGTCCCGGATTGCTGTGGTGGGACCTTGCTCG 1800
T G P T K R S S L G P G L L W W D L A R 564
ACAGACAGCGTCTGTGGCCCAAGGAAGACACTGCCACCTGGAGGAGAGCTGGTGAA 1860
Q T A S V A P K E D T A T L E E S L V K 584
GGGACCGGAAGACATCCCTGCTGTGACCAAGAAGCCCTGGCCTCAAGCCAGGCGCGA 1920
G P E D I P A V T K K P P G L K P G A E 604
GACCCACCCCTGTATCTGGGGCAGATGTGGAGACCAACCTCtagggcggggtccaag 1980
T H P L Y L G H D V E T N L 618
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tatagaagcttggctgatacatgccctgccagaagtcctctgtgtcttaccgcacccaaa 2100
gag 2160
acaaaggaaacgctctggaaccttcattgcccttgtagatttcagtaggcagcgagagaca 2220
ctcagcttctccagactgaggttttctcatttatcaggcagagaaacggagggctgtcac 2280
cccaacacggggagggagacagtagaagggtcatagatacaaaagaaactaaggcagagg 2340
gagaaatgaattgtctacagagcacagagctccaaggattgtgaagctaccttgaggtgc 2400
caagggacggattctcagagccttcacaagacacaaacggacgagttgcctcctccatt 2460
cagatggtttgcagactatcagagaacctgttctcctgtgatcagctacctagcctctg 2520
ccacgtgttccagcttccaggagggccacacagacccacccctcctcctcacccttt 2580
accctctgtctttcacacactaggcaactgctccaccacaggacctcacacctagacct 2640
ccgtttttgacacagggccttaaggtaactctggctgccatctgactatctctcagcagct 2700
tcagctgacaaatattcattcttttctattgccaagttgtcttgaaggagagaccaca 2760
AtgtgtcatccatgccagcttttgtgtctaacaAataaaa atcgtgaagggtgttcaggt 2820
gcaatggcctgtgacatta

FIG. 2

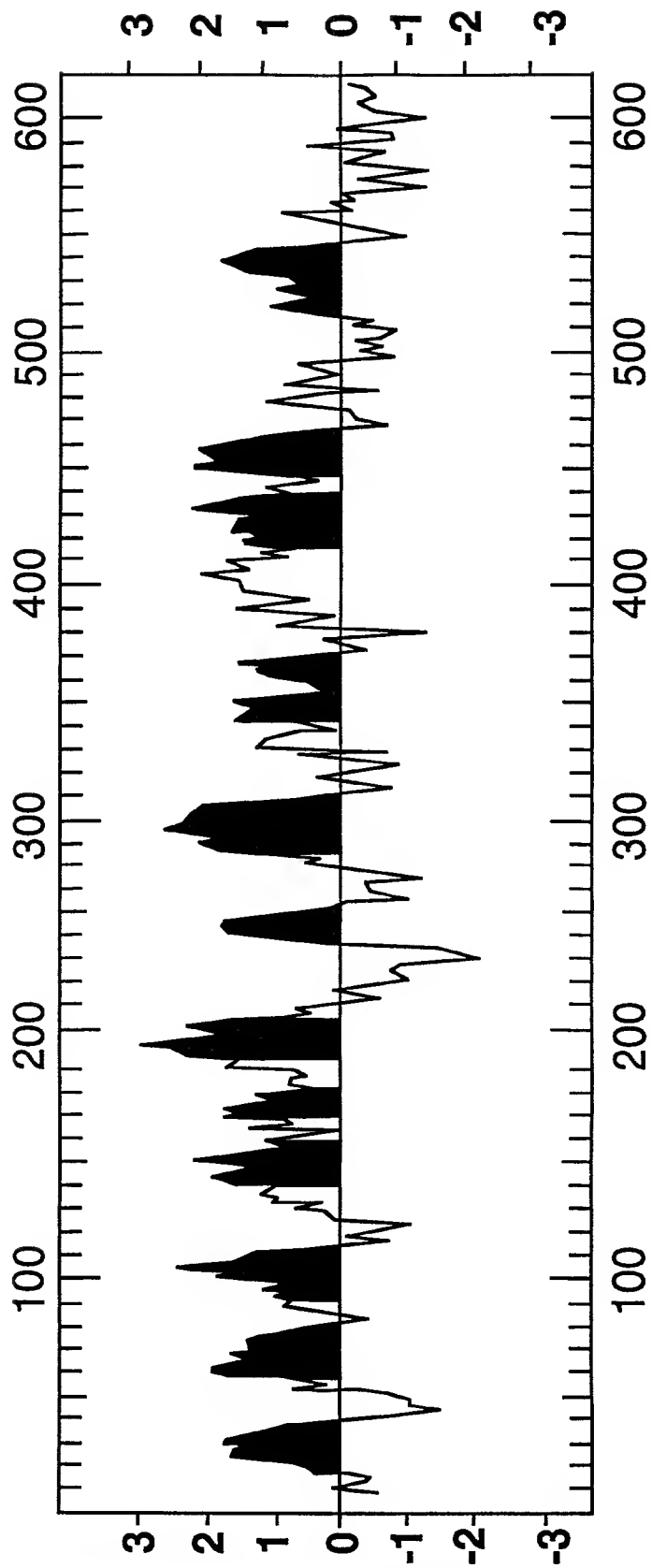


FIG. 3A

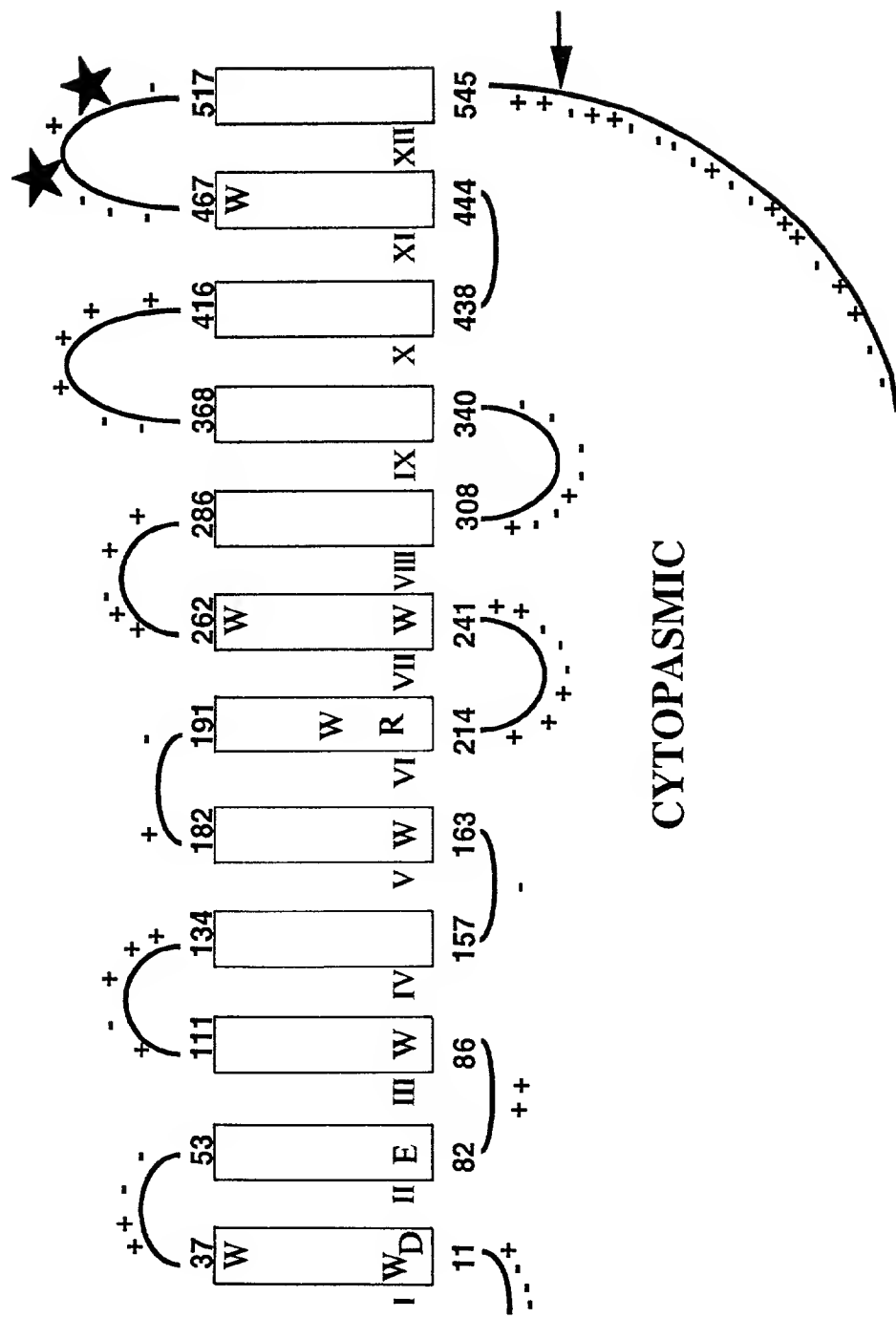


FIG. 3B

DENDROGRAM OF SODIUM DRIVEN TRANSPORTERS

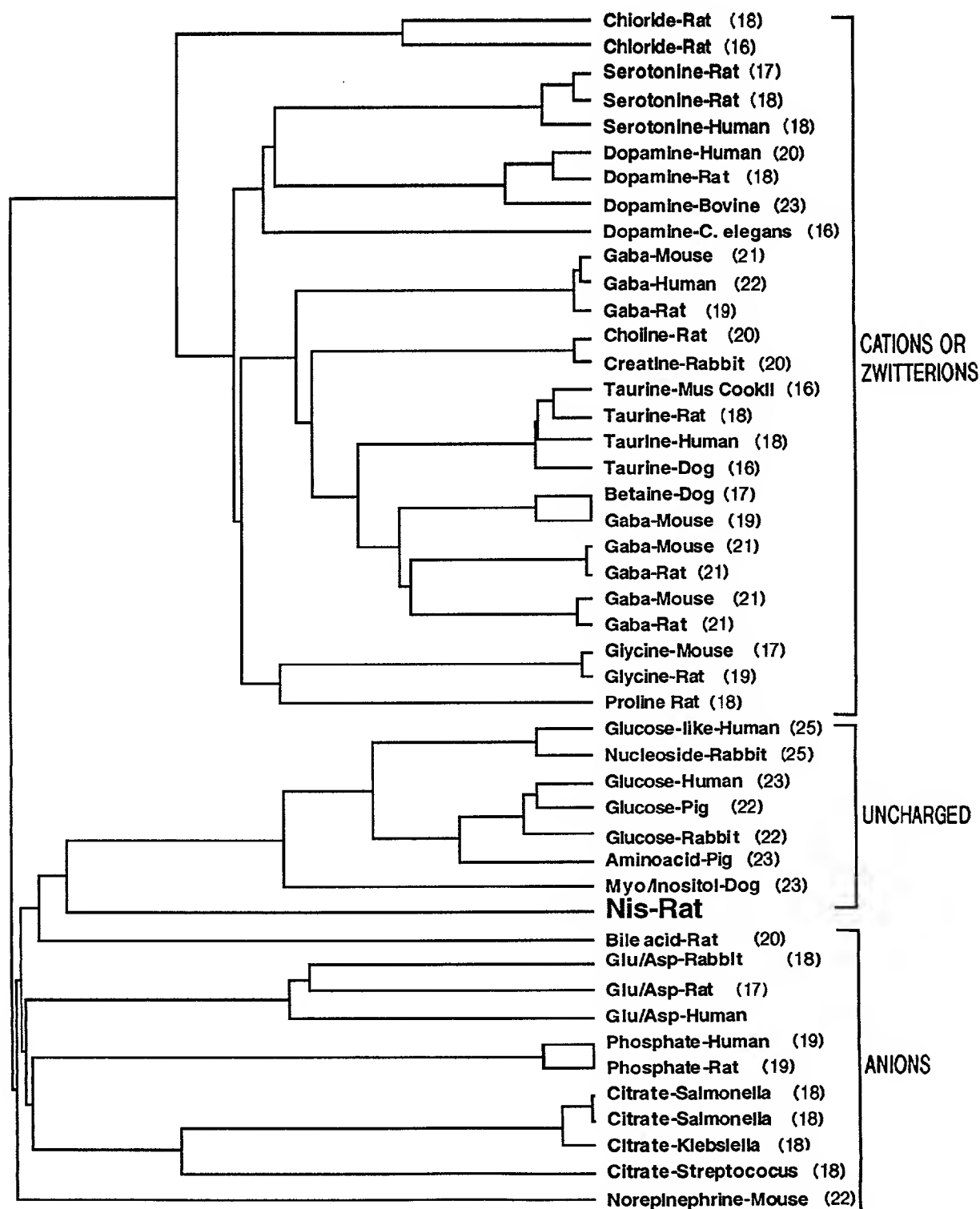


FIG. 4